



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 09/404,520A
Source: 1600
Date Processed by STIC: 1/7/2004

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



1600

RAW SEQUENCE LISTING

DATE: 01/07/2004

PATENT APPLICATION: US/09/404,520A

TIME: 12:07:42

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2 <110> APPLICANT: Cao, Yongwei

3 Ghodssi, Azita

4 Hinkle, Gregory J.

5 McIninch, James

6 Timberlake, William E.

7 Yu, Jaehyuk

9 <120> TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof

11 <130> FILE REFERENCE: 38-10(15498)A

OK 13 <140> CURRENT APPLICATION NUMBER: US/09/404,520A

OK 13 <141> CURRENT FILING DATE: 1999-09-23

E--> 13 <160> NUMBER OF SEQ ID NOS: 44345

44347 (p.14)

pg 1-16
 Not Comply
 with the Disclosure Needed

ERRORED SEQUENCES

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1358 <211> LENGTH: 1314

1359 <212> TYPE: DNA

1360 <213> ORGANISM: Aspergillus nidulans

1362 <223> OTHER INFORMATION: unsure at all n locations

OK 1363 <400> SEQUENCE: 24

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1557 <213> ORGANISM: Aspergillus nidulans > (2207 insert

1559 <223> OTHER INFORMATION: unsure at all n locations

E--> 1560 <400> SEQUENCE: 28

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1924 <223> OTHER INFORMATION: unsure at all n locations

E--> 1925 <400> SEQUENCE: 33

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2065 <223> OTHER INFORMATION: unsure at all n locations

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TIME: 12:07:42

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2467 <223> OTHER INFORMATION: unsure at all n locations

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2622 agtgtagagg agtttttttt gggttgctca actgattcag ccgccgactg tatcattaaa 4620
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2654 agcacatcct gcgttatctc aggcattggg tgctcctgat attttatagt atcaacaaag 5580
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2696 aggtaagtgc tttctgtatc acctctcgat aagccttctt aaagatatta tgaggaatag 6840
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2780 <213> ORGANISM: Aspergillus nidulans insert 2207
2782 <223> OTHER INFORMATION: unsure at all n locations
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2789 aacctcgatc ctactggaaa cgaacagtga gccttgctgc ttcaatgcct gcccgataaa 180
2791 caaatcaatt tctcctcttt acttgaggcc ttcttgtctc gcgttgaagt cggcaatcga 240
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2795 gaagacgcgt ggtctgaccg cgatccccca ggttgcggtt aacactgtca gtcacgtta 360
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7701 <211> LENGTH: 3496
7702 <212> TYPE: DNA
7703 <213> ORGANISM: Aspergillus nidulans insert 2207
7705 <223> OTHER INFORMATION: unsure at all n locations
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7730 cgtttccctg ttgateccatc ctgtccgact tttttctctt gcgggacagc cgtcggactc 720
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7734 tcacaatcct catcaactgg catctactgc ggaagacaca tggaccgggt gtggctgatg 840
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7746 atggcgacca aagtaccagg cgagcgtgga gaaatggctg cgcgtggctg aagaggagga 1200
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7750 gaatccttgag gcggaattct acggcctgcc gagtccgggt gagcgcctcg atgtatttgc 1320
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7758 caaactttat cactctacgc aagctgtcaa cgccatcgtc ggcatcgaag cagacacaaa 1560
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7762 ggcattcgca ttgcgcggc accaccccg cctacaaatc ttcacgacc ggcttcacga 1680
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7818 agagaacggg caaagtatgc tcagcgggac cctcagcagg ctgcgtgtgg gctccttgct 3360
7820 gacccaatca acaagcgaat atcaatacgg aatgccatag ttcacatag ttcacatag 3420
W--> 7822 tccataataa cttgattgac tctcatgagc gtgtcngatt ngcagcttcc aacgtattta 3480

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8081 <210> SEQ ID NO: 84
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8083 <212> TYPE: DNA
8084 <213> ORGANISM: Aspergillus nidulans insert 2207
8086 <223> OTHER INFORMATION: unsure at all n locations
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9220 <212> TYPE: DNA
9221 <213> ORGANISM: Aspergillus nidulans insert 2207
9223 <223> OTHER INFORMATION: unsure at all n locations
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9230 ccgacatggc cagaatccat gctgcgttga cgcactcgg gatctctatc gcaaaactata 180
W--> 9232 gcgcacanat catggacgta ctcaggcttc gggctctcgg atcagctacc gagccgaaat 240
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9715 <210> SEQ ID NO: 117

9716 <211> LENGTH: 880

9717 <212> TYPE: DNA

9718 <213> ORGANISM: Aspergillus nidulans *insert 2207*

9720 <223> OTHER INFORMATION: unsure at all n locations

E--> 9721 <400> SEQUENCE: 117

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9727 gctgactgga cagggttgac agcagaaatc ctgataggat ctatgtccat ttggtctata 180
9729 ttatggttca ggggttggtg ggatttgag gctggtttct gggcggggcg gtagcaccgg 240
9731 tcggcgcgct gaacaagttc aatatattca ttatatgaga ggtcaaagat agagtcgttc 300
9733 aaactttcca atatctggta gagattgggc cggagcccc gatggagcgt ggacacacac 360
9735 aaaatatctg gccatgagtt tgtattggcc tcgtacaaga gcctttcaaa acgagcaagg 420
9737 taagccacaa gcaattcatc atccctttaa gagatagtgg agaatcgctg tatggcttct 480
9739 tgggtgttccc gtgggttggt acagaggcat tggagaagg agaagataac ctcaggatcc 540
9741 tattgttggt tatcttctgc agactggcag aggtgtagga ccgaagcctg ctatggctgt 600
9743 tctaattagt cctatacata gtcaaaggca tcagctctgg tgagctgac agatcagagt 660
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9826 <210> SEQ ID NO: 120

9827 <211> LENGTH: 233

9828 <212> TYPE: DNA

9829 <213> ORGANISM: Aspergillus nidulans *insert 2207*

9831 <223> OTHER INFORMATION: unsure at all n locations

E--> 9832 <400> SEQUENCE: 120

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9838 tgttgccctc gatgtgtcaa ctgtagtct ctattttggc cagcgcgcga agtagtatgt 180
9840 catgcatagg atggtgctgc agacaaccta tgtatcttgg ccggacaatg tag 233

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10075 <210> SEQ ID NO: 129

10076 <211> LENGTH: 710

10077 <212> TYPE: DNA

10078 <213> ORGANISM: Aspergillus nidulans *insert 2207*

10080 <223> OTHER INFORMATION: unsure at all n locations

E--> 10081 <400> SEQUENCE: 129

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10087 ttcttatttt tcaagtcacc atctttgcgc tccctgtgta ctccatggc ggccttgaga 180
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W--> 10103 ttatgtcacc ggtgatgact accttcgcaa ttctttcgga taggcacggc cacctntggc 660
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10590 <210> SEQ ID NO: 141
 10591 <211> LENGTH: 171
 10592 <212> TYPE: DNA
 10593 <213> ORGANISM: *Aspergillus nidulans* *insert <2207*
 10595 <223> OTHER INFORMATION: unsure at all n locations

E--> 10596 <400> SEQUENCE: 141
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 10600 nnnnnnnnnn nnnnnnnnnn nnnnnnnctg cagcaacgga atggttgctg aaattattac 120
 10602 tatagatcga gccagcacgc caggcaccgc cgctaagcca gacaagtacg t 171
 10785 <210> SEQ ID NO: 144
 10786 <211> LENGTH: 1485
 10787 <212> TYPE: DNA
 10788 <213> ORGANISM: *Aspergillus nidulans* *insert <2207*
 10790 <223> OTHER INFORMATION: unsure at all n locations

E--> 10791 <400> SEQUENCE: 144
 10793 ggaaagcatc atcttggtcg atagtgggtg aggatataatt ctaccccgta attttttcta 60
 10795 taagcctatc acgttaacac ctcttaccaa cctgtcactt cggccaagtc cactctccat 120
 10797 ccgttttctg cgccgttgaa gcttgaagag ggtgatggct gcacgcagca ctgtctttat 180
 10799 acctggccat tgcatttgct tcittactat ccaaaatttc ctgcgcgtat ctcccagaat 240
 10801 tacaggccct gcttctaaac agatagtctc agccgtgaca gctggctcta tccgttgtct 300
 10803 gagaaatacg ggccagggtg cctccgcccg attttatatg gcaatccaag cactaaacga 360
 10805 ttcgatgcaa ttgatgaaac tcctcgcaga gcctacacct caacgtcgag gtgatataac 420
 10807 tgcccggtgca ggtagcgcac tagggctttg tacatgctac gcgcaacgca aaactcaaat 480
 10809 catgttttta cgccgtgagac catcggtata gtgttatctt ctaaaggagc gtacctacca 540
 10811 gcgttttctga caactatttt attatagcgg taactttgca gatatagtct ttatgaaggc 600
 10813 tttcgcaaaag tatgagccgt caatttcgcc aggatattct gggccactgg ggggtgagatt 660
 10815 accgtattga tgatataaat ggctgatctt ccaacccctg acgaaactgac ccctcaatat 720
 10817 accgtattga gagacacaga agaagagatt tatcgccaac gagatagata gtcaatcgct 780
 10819 atatggcatc cgctccttag caagctacat ccgtgtagtt gatacagttt ccttctgccc 840
 10821 tttccccttt gagcgtagac gcgtatctac aacaatgcga ttattaccaa aaacaagtca 900
 10823 ggtccaaata ggccttaaaa cgccgcagtt catctaattg agcaatggaa ctagggggtcc 960
 10825 tcgaagcggg ctcggtgctt cccgtaacgc ctgagtccaa tccccgcccg cccccgctca 1020
 10827 aatcactcct ataactctca aaattttcca cgtacctggg aatctctcag atttttccaa 1080
 10829 ttggcgctcc gccaccgct cacttttctt tccaggcgaa aagacagcta gcatgtcatc 1140
 10831 tgaaaccatc cctcagaagc agaagcaccg gcaaggacag ggcgccaaga gctcccgatg 1200
 10833 gcgtaacgcg cttggcaggg actgggcttt ggtatccctt ttcaccggct taatgaccgc 1260
 10835 agtaatcggt tgggtgcttg gaatcctgaa tgcagaaatg gcgttggaag cgccttttg 1320
 10837 atttttccag cgtatcgata tagacagcca ttgggaggag caccgaaaag aggtgaaaga 1380

W--> 10839 caatttcatg gccagctggc agcctacgc caaacatgcc tggggttaaga ngatcatcag 1440
 10841 cttcaaattc ggcttctttt ctatttttat tattattttg tgttt 1485
 11004 <210> SEQ ID NO: 149
 11005 <211> LENGTH: 608
 11006 <212> TYPE: DNA
 11007 <213> ORGANISM: *Aspergillus nidulans* *insert <2207*
 11009 <223> OTHER INFORMATION: unsure at all n locations

E--> 11010 <400> SEQUENCE: 149
 11012 ctagaactaa gaactaggga tcaattacag gaagattcgg acaaagaata gatggctaac 60
 11014 tacgatctat gccaaactatt tcgaggctaa aggagtgtaa tcaaagaaac gaatagggtc 120
 11016 aactatggct gctatggccc cagggggtggg aagaatcagg caagccctag atcacctgca 180

RAW SEQUENCE LISTING

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TIME: 12:07:42

Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set: N:\CRF4\01072004\I404520A.raw

```

11018 cgtccaccca gaagcgggtg tcgtcagact gatatttcga atcactctca atctgtctgt 240
11020 gagtccatgc catagcgtcg atgtatcctc tagaagaata tcagtgaaga ccccccaaaa 300
W--> 11022 tcacaatcgt tggatggcga gatactcgcc ottgatgtcc togggtgaggg ngattgttca 360
11024 caccagactc gcatttgagg tggcgcgtga accagatctc atatcaaaat ggttttcacc 420
11026 ttcgtagcga gcttgaatat ccttggccaa gtcggagctt gcatccatcg ggtcaataga 480
11028 gagacagagg ccggcgagct tgacccggaa gaagagccct tatttgagaa tggagccggg 540
11030 atcgccctgg tcgatgggcc tgccatagaca ctttgacgcc caatgaccca gaatgaacaa 600
11032 ttctggtt 608
11279 <210> SEQ ID NO: 154
11280 <211> LENGTH: 2081
11281 <212> TYPE: DNA
11282 <213> ORGANISM: Aspergillus nidulans insert <2207
11284 <223> OTHER INFORMATION: unsure at all n locations
E--> 11285 <400> SEQUENCE: 154
11287 tgcctcggat actcgaaaga gtaacatgtc ggtgtgcagc agcggcgaga gaacccaacc 60
11289 gttcctcttt tgatacatgt ctcccagttg aggatacagg taaccaggta atcaacaact 120
11291 tggatgatac tgctgatgg cctcgtgaag ctgcacaggg ccgccgttgg acataaaaag 180
11293 atcaatatcc cgcagttgag ggatcttatg aatgaggtca cttaccctgg cgttgagggt 240
11295 cgttgaacaa cctcgcactt tgggagtgct tcgaactccc aagttctcag cttgaagcgc 300
11297 agaccggagg ccgctgtagg cacgaagcac tgggtgcgct cgtgggcccgc taatcggata 360
11299 ccatgggacg atgatactga gtcgttttgc gtgaacgagc acacggctgg cttctggctg 420
11301 ccggagaaac ttaagaggca ttatccttga gtctacgtat gatgatatgc tcgtacaaga 480
11303 ggcacctggg aacctgttt cactcttggg ccacctcatc acgtatctgc agacacggta 540
11305 agatatacca ccattgaaaa agggttaacg tacttgtctc ggaatcagac atttaaactc 600
11307 tgatggcagt ccgtccatgt tttggtagag ggggttgatg gtgtgcggag ggttttaaaa 660
11309 gaaatgctag cttggggaac atggctttct ttataaatca ttctaccag agcttaccta 720
11311 acagcacaga atagcctact tcctgcctag cggaaaacat atctagacct agatagactc 780
11313 cctgctctga tcctccccct ctagccgcac ctaaacccaa caacacccta gacatcagtc 840
11315 ttcccacact aattcttgta gaaactgacg atctcggtgt tcccccttcc cgcacgtac 900
11317 ggtgggagcc cgtaaacgtg ccagtttttc tactgcaga gtggttctct ccaatttggc 960
11319 aggtagttat tgaggcagct cagcctcccg aaattgactt tacccttga gagtatctgt 1020
11321 tatgaatgct caaaggggaa agggtagaag gaagctgcat caactacag aacgtagcct 1080
11323 actaaggata ggatgccata agacgattga ttctctatct tgatgacgat agttctcact 1140
11325 tcttcaatgt acaactcctc gagggatcag gccagggggc agagatcatg ccatacagat 1200
11327 cacgtggcac gtgacacgag gctcaacatg atatatcgt atcagtatcc tatgtgataa 1260
11329 gtctgttctt cctcgtccaa aaatcaccaa cagtattaat cgataaatga tgtgctcggg 1320
11331 agtatgttag atatataacc tcacttctat aactatagat ttgggataca ggtacagaac 1380
11333 catgtcttgc tatgtagggt cataagccag tgtcataact taattcaatt ttcttgccaa 1440
11335 gagactgaca aacatttgtt atcattgcgt cttttaagta cggcatactg ttcgaacaaa 1500
11337 agggcaaaaa cgtatttaac acgtaacgag tttgtaccag ctgagattct gccagcagaa 1560
11339 atttgattac atatgcagga tagcttgctt agtttcaccg actggttact catcctaagc 1620
11341 accagtaaaa ggtgcaagct atgtcaggt gaggtacaca gccgtaccc ctaggcagtg 1680
11343 ctggtgttcg tacaggaaaa tcaagaaagc tcgtacggac cttataagac aatcggattg 1740
11345 tcctcatccc cttcagggaa atcaaggtag ataggatttt cagcctcacc ttccactgga 1800
11347 tcaagattga taaccagctg gtttgacgcc ccctggggta gaccaagccc atcaccaagc 1860
11349 ataccctgcc agtgctcgtc tcgtacggag cagcaatgcc catggtcacg ccatttataa 1920
11351 ttggcgcagc atccgttgaa tgccccaggc acatggcggc attcagggaa gactggtctt 1980
11353 tcttgacgga gcggcatcct ttacagggct ggtcagacga gtccccaga ctgtatagca 2040
W--> 11355 ttgcattgat gtcnangggc cgggtgttgca taattgatgc a 2081

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RAW SEQUENCE LISTING

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Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set: N:\CRF4\01072004\I404520A.raw

11958 <210> SEQ ID NO: 166
 11959 <211> LENGTH: 173
 11960 <212> TYPE: DNA
 11961 <213> ORGANISM: Aspergillus nidulans
 11963 <223> OTHER INFORMATION: unsure at all n locations

E--> 11964 <400> SEQUENCE: 166

11966 taaagggatc tagaatcgtg attatgagtt tgataaggga aagcacatgg aatacattgg 60

W--> 11968 aaattagtgc tataaggcat cgctangaca gaaggcagaa tactgtgttg tataggttcc 120

11970 gagagaatga ctgttgagtc gatgtgttca ttagtggttt ccattttagt cag 173

13005 <210> SEQ ID NO: 177
 13006 <211> LENGTH: 712
 13007 <212> TYPE: DNA
 13008 <213> ORGANISM: Aspergillus nidulans
 13010 <223> OTHER INFORMATION: unsure at all n locations

E--> 13011 <400> SEQUENCE: 177

13013 cctcggacaa caaggtctac ttccagctgc accagaacgg ctctctgaca gttaacacgg 60

13015 gccccaatgg attggagcgt ctcgactaca tcatctctgg ggccgagaag cgcggaatca 120

13017 agttgggtcat cccgttggtt aactactggg acgactttgg tggcatgaat gcctacatca 180

13019 ggcgctatgg cggcgacaag cccggctggg acaccaatga taagattcag gctgcatatc 240

13021 acgcctacgt caaggccgtg gtgagccgt atgttgactc ccggcaatct ttgcctggga 300

13023 gttggcaaat gagccccgt gcagtgggtg cgacacgtcc atcatcaatc agtgggcgac 360

13025 gaaaaccagc agcttcatta aatccctgga tccaaaccat atggtagcca tgggcgacgg 420

13027 tgagtcccct gaatctccct ctctctgggt gtagaccgcc gctaagaggg gatctctctt 480

13029 agagggcatg ggccctccctg gtgacagcaa ctatccctac tctactacg aaggcaacga 540

13031 ctttgactg aaccttgcca tcccgacat tgactttggc actctccatc tctacaccac 600

W--> 13033 cgactgtacg tatctnccgg atgacccagt tctgogttct ctctccatat cgggtgctaa 660

13035 tgacttccag ggggctgtg caacaactcg tggggcaaca agtgggtaca ag 712

13632 <210> SEQ ID NO: 183
 13633 <211> LENGTH: 1245
 13634 <212> TYPE: DNA
 13635 <213> ORGANISM: Aspergillus nidulans
 13637 <223> OTHER INFORMATION: unsure at all n locations

E--> 13638 <400> SEQUENCE: 183

13640 atgataagca cagcgtatcc cgcttggggt aacgacggcg agggaaatagc accggacttt 60

13642 ataacatcgc tgtcaaaagc tccgacctct cattgagtat ccgtagtttg tctgcctcaa 120

13644 agaaatagaa aagatttggg tgaccgtaag acaaacacac ggaatggcac aagcaaggcc 180

13646 agcgagtgtc tctggaccga cagtgggagt gtcaagacag ggcgagacgc agcgtatgga 240

13648 atgatcgttc ctagtgttcc ctgtaagaaa catcgaagtg gggtagtcga ttgactaca 300

13650 agtataacga tcttgagtgg ctgaacggag gaaaacgggc agaaccgctt cagtaacagc 360

13652 tgagcctcgt gagtggtcga atctgcatct taattttttc tcagcacagt gacagtttct 420

13654 ggttgggcga gctggcgct cttaagtaga gggccgtag gctccataga tcagactgcc 480

13656 tccgggataa aaggtcacat ctcccttcaa gcagtcaatg tacttacggg aaacatggaa 540

13658 acatgagtca acttgcagaa gtgggcatag cttgtttatc tccgttgagc gtcgggcact 600

13660 tggttaagctc acttctttgt cgagtactga atatacccat atttcaaga gaattatggt 660

13662 tgtgtgttgc gtgagttgtc ggatggctgc cgattgtaca tcaagaccgg tgcttgggat 720

13664 tgccgaaatc cttgctgctg ccggttaagat gccagcgtct ggtatctccc tgggtcaagga 780

13666 ctcttgggca acttaagacc tattttcaat catgaaatca gcgttcattg agtgagtgt 840

13668 gagtgtattc gaagaagtat acttgccgac gggtggaaaa acaggaacgc tggttccaca 900

13670 ccaaattggct gaccgcccac cattccctac tcggaagagg aatcacgagt ctgctgatgt 960

*insert 2207**insert 2207***IMPORTANT**

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

*insert 2207***IMPORTANT**

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 01/07/2004

PATENT APPLICATION: US/09/404,520A

TIME: 12:07:42

Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set: N:\CRF4\01072004\I404520A.raw

```

13672 catcggttcc acgtgatgca cgcgcggtct tgagcttccc caagctgggt actgggagaa 1020
13674 gcttcagggtt tcagcattaa gggctcttggt caatgtcact gacgcccggt tagcgtccta 1080
W--> 13676 tcaatctcaa totagctttc agcgtcttnt caagtccatc gccgggtcctg tttcggatca 1140
13678 ccacgctat ctncctgtgt atcacggttt tccggcggtcc caccgagctt tcgctcctta 1200
13680 gccgccttg tccctccttc agctcagttt ctgtctgacc tagcg 1245

```

Important The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

t
ent

09/404,520A 14

<210> 44347 last sequence in submitted file
<211> 21
<212> DNA
<213> Aspergillus nidulans

<400> 44347

gttctcgaga cgagcgatcg c

21

15

VARIABLE LOCATION SUMMARY

DATE: 01/07/2004

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TIME: 12:08:40

Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

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Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:24; N Pos. 211
Seq#:28; N Pos. 664
Seq#:33; N Pos. 1020
Seq#:37; N Pos. 1168
Seq#:45; N Pos. 586,757,758
Seq#:47; N Pos. 6706
Seq#:51; N Pos. 274
Seq#:80; N Pos. 3456,3461
Seq#:84; N Pos. 619,624
Seq#:108; N Pos. 188
Seq#:117; N Pos. 750
Seq#:120; N Pos. 75
Seq#:129; N Pos. 656
Seq#:141; N Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
Seq#:141; N Pos. 55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73
Seq#:141; N Pos. 74,75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:144; N Pos. 1431
Seq#:149; N Pos. 351
Seq#:154; N Pos. 2054,2056
Seq#:166; N Pos. 86
Seq#:177; N Pos. 616
Seq#:183; N Pos. 1109,1153
Seq#:195; N Pos. 4195
Seq#:197; N Pos. 830
Seq#:205; N Pos. 3103
Seq#:209; N Pos. 785,793,824
Seq#:220; N Pos. 16,33,34,74
Seq#:233; N Pos. 447
Seq#:236; N Pos. 146
Seq#:245; N Pos. 316,411
Seq#:275; N Pos. 502
Seq#:285; N Pos. 1544
Seq#:304; N Pos. 912
Seq#:310; N Pos. 671
Seq#:324; N Pos. 1508
Seq#:325; N Pos. 1222,1223,2378,2382,2427,2608
Seq#:334; N Pos. 803,807
Seq#:347; N Pos. 2863
Seq#:355; N Pos. 5912
Seq#:360; N Pos. 2289
Seq#:363; N Pos. 18
Seq#:365; N Pos. 519
Seq#:367; N Pos. 2039

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/404,520A

DATE: 01/07/2004

TIME: 12:08:40

Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set: N:\CRF4\01072004\I404520A.raw

Seq#:403; N Pos. 73
Seq#:425; N Pos. 620
Seq#:426; N Pos. 1004
Seq#:439; N Pos. 47,50,68,138,162,165,243,250,264,272,298,299,301,302,334
Seq#:439; N Pos. 385,420,463,489,493,573
Seq#:441; N Pos. 423
Seq#:457; N Pos. 669
Seq#:460; N Pos. 4388,4397

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/404,520A

DATE: 01/07/2004

TIME: 12:08:40

Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set: N:\CRF4\01072004\I404520A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
 L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:1363 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:24
 L:1363 M:283 W: Missing Blank Line separator, <400> field identifier
 L:1371 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
 L:1371 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:24
 L:1371 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:24
 L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
 L:1560 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:28
 L:1560 M:283 W: Missing Blank Line separator, <400> field identifier
 L:1584 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
 L:1584 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:28
 L:1584 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:28
 L:1584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:660
 L:1925 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:33
 L:1925 M:283 W: Missing Blank Line separator, <400> field identifier
 L:1959 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
 L:1959 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:33
 L:1959 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:33
 L:1959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:960
 L:2066 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:37
 L:2066 M:283 W: Missing Blank Line separator, <400> field identifier
 L:2106 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37
 L:2106 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:37
 L:2106 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:37
 L:2106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1140
 L:2411 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:45
 L:2411 M:283 W: Missing Blank Line separator, <400> field identifier
 L:2431 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45
 L:2431 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:45
 L:2431 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:45
 L:2431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:540
 M:341 Repeated in SeqNo=45
 L:2468 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:47
 L:2468 M:283 W: Missing Blank Line separator, <400> field identifier
 L:2692 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
 L:2692 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:47
 L:2692 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:47
 L:2692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:6660
 L:2783 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:51
 L:2783 M:283 W: Missing Blank Line separator, <400> field identifier
 L:2793 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:51
 L:2793 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:51
 L:2793 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:51
 L:2793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240
 L:7706 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:80
 L:7706 M:283 W: Missing Blank Line separator, <400> field identifier
 L:7822 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:80

VERIFICATION SUMMARY

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Input Set : E:\ENU.corrected SEQ list 12.23.03.rpt.txt

Output Set : N:\CRF4\01072004\I404520A.raw

L:7822 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:80
 L:7822 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:80
 L:7822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:3420
 L:8087 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:84
 L:8087 M:283 W: Missing Blank Line separator, <400> field identifier
 L:8109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
 L:8109 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:84
 L:8109 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:84
 L:8109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:600
 L:9224 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:108
 L:9224 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:108
 L:9232 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:108
 L:9232 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:108
 L:9232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:180
 L:9721 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:117
 L:9721 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9747 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:117
 L:9747 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:117
 L:9747 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:117
 L:9747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:720
 L:9832 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:120
 L:9832 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9836 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
 L:9836 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:120
 L:9836 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:120
 L:9836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:60
 L:10081 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:129
 L:10081 M:283 W: Missing Blank Line separator, <400> field identifier
 L:10103 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:129
 L:10103 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:129
 L:10103 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:129
 L:10103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:600
 L:10596 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:141
 L:10596 M:283 W: Missing Blank Line separator, <400> field identifier
 L:10598 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:141
 L:10598 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:141
 L:10598 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:141
 L:10598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
 M:341 Repeated in SeqNo=141
 L:10791 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:144
 L:10791 M:283 W: Missing Blank Line separator, <400> field identifier
 L:10839 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
 L:10839 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:144
 L:10839 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:144
 L:10839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:1380
 L:11010 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:149
 L:11010 M:283 W: Missing Blank Line separator, <400> field identifier
 L:11022 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149

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L:11022 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:149
 L:11022 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:149 ✓
 L:11022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:300
 L:11285 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:154
 L:11285 M:283 W: Missing Blank Line separator, <400> field identifier
 L:11355 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:154
 L:11355 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:154
 L:11355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:2040
 L:11964 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:166 ✓
 L:11964 M:283 W: Missing Blank Line separator, <400> field identifier
 L:11968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:166 after pos.:60
 L:13011 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:177 ✓
 L:13011 M:283 W: Missing Blank Line separator, <400> field identifier
 L:13033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:600
 L:13638 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:183 ✓
 L:13638 M:283 W: Missing Blank Line separator, <400> field identifier
 L:13676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183 after pos.:1080
 M:341 Repeated in SeqNo=183
 L:14911 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:195
 L:14911 M:283 W: Missing Blank Line separator, <400> field identifier
 L:15051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:4140
 L:15118 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:197
 L:15118 M:283 W: Missing Blank Line separator, <400> field identifier
 L:15146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197 after pos.:780
 L:15673 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:205
 L:15673 M:283 W: Missing Blank Line separator, <400> field identifier
 L:15777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:3060
 L:16028 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:209
 L:16028 M:283 W: Missing Blank Line separator, <400> field identifier
 L:16056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:780
 L:16661 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:220
 L:16661 M:283 W: Missing Blank Line separator, <400> field identifier
 L:16663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0
 M:341 Repeated in SeqNo=220
 L:17374 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:233
 L:17374 M:283 W: Missing Blank Line separator, <400> field identifier
 L:17390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:420
 L:17457 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:236
 L:17457 M:283 W: Missing Blank Line separator, <400> field identifier
 L:17463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:120
 L:17884 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:245
 L:17884 M:283 W: Missing Blank Line separator, <400> field identifier
 L:17896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:300
 M:341 Repeated in SeqNo=245
 L:19129 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:275
 L:19129 M:283 W: Missing Blank Line separator, <400> field identifier
 L:19147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:480
 L:19734 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:285
 L:19734 M:283 W: Missing Blank Line separator, <400> field identifier

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L:19786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:1500
L:20987 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:304
L:20987 M:283 W: Missing Blank Line separator, <400> field identifier
L:21019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:900
L:21306 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:310
L:21306 M:283 W: Missing Blank Line separator, <400> field identifier
L:21330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310 after pos.:660
L:21915 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:324
L:21915 M:283 W: Missing Blank Line separator, <400> field identifier
L:21967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324 after pos.:1500
L:21988 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:325
L:21988 M:283 W: Missing Blank Line separator, <400> field identifier
L:22030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:325 after pos.:1200
M:341 Repeated in SeqNo=325
L:22577 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:334
L:22577 M:283 W: Missing Blank Line separator, <400> field identifier
L:22605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:334 after pos.:780
L:23450 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:347
L:23450 M:283 W: Missing Blank Line separator, <400> field identifier
L:23546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:347 after pos.:2820
L:24201 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:355
L:24201 M:283 W: Missing Blank Line separator, <400> field identifier
L:24399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355 after pos.:5880
L:24620 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:360
L:24620 M:283 W: Missing Blank Line separator, <400> field identifier
L:24698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360 after pos.:2280
L:24853 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:363
L:24853 M:283 W: Missing Blank Line separator, <400> field identifier
L:24855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:363 after pos.:0
L:25104 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:365
L:25104 M:283 W: Missing Blank Line separator, <400> field identifier
L:25122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:365 after pos.:480
L:25187 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:367
L:25187 M:283 W: Missing Blank Line separator, <400> field identifier
L:25255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:1980
L:28090 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:403
L:28090 M:283 W: Missing Blank Line separator, <400> field identifier
L:28094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:403 after pos.:60
L:30085 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:425
L:30085 M:283 W: Missing Blank Line separator, <400> field identifier
L:30107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:600
L:30118 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:426
L:30118 M:283 W: Missing Blank Line separator, <400> field identifier
L:30152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:426 after pos.:960
L:30961 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:439
L:30961 M:283 W: Missing Blank Line separator, <400> field identifier
L:31028 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:441
L:31028 M:283 W: Missing Blank Line separator, <400> field identifier
L:32189 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:457

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L:32189 M:283 W: Missing Blank Line separator, <400> field identifier
L:32294 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:460
L:32294 M:283 W: Missing Blank Line separator, <400> field identifier
L:32535 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:463
L:32535 M:283 W: Missing Blank Line separator, <400> field identifier
L:32598 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:464
L:32598 M:283 W: Missing Blank Line separator, <400> field identifier
L:13 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (44345) Counted (44347) ✓